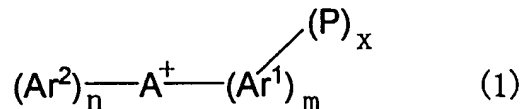


**Amendments to the Claims:**

This listing of claims will replace all prior versions and listings of claims in the application.

**Listing of Claims:**

1. (Currently Amended) An onium salt compound having a cation moiety of the following formula (1),



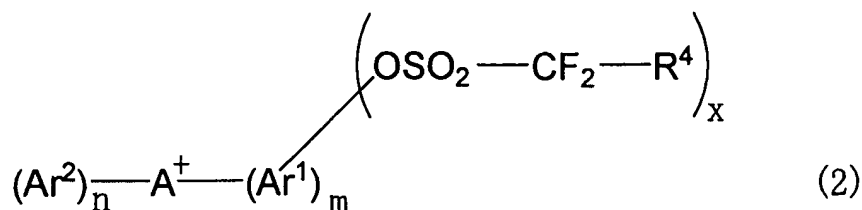
wherein A represents an iodine atom or a sulfur atom, when A is an iodine atom, m is 1 or 2 and n is 0 or 1, provided that (m+n)=2, and x is an integer of 1-10, and when A is a sulfur atom, m is 1-3 and n is 0-2, provided that (m+n) = 3, and x is an integer of 1-15; Ar<sup>1</sup> represents a substituted or unsubstituted aromatic hydrocarbon group having 6-20 carbon atoms with a valence of 1 to (x+1) or a substituted or unsubstituted heterocyclic group having 3-20 atoms with a valence of 1 to (x+1), Ar<sup>2</sup> represents a substituted or unsubstituted monovalent aromatic hydrocarbon group having 6-20 carbon atoms or a substituted or unsubstituted monovalent heterocyclic group having 3-20 atoms, or Ar<sup>1</sup> and Ar<sup>2</sup> mutually bond together with A<sup>+</sup> in the formula to form a group possessing a cyclic structure with 3-8 atoms; and the x-number of P groups bonding to one or more of the m-number of Ar<sup>1</sup> groups individually represent -O-SO<sub>2</sub>R<sup>1</sup>, -O-S(O)R<sup>2</sup>, or -SO<sub>2</sub>R<sup>3</sup>, wherein R<sup>1</sup>[[.]] and R<sup>2</sup>, ~~and~~ R<sup>3</sup> individually represent a hydrogen atom, a substituted or

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unsubstituted alkyl group having 1-20 carbon atoms, a substituted or unsubstituted monovalent alicyclic hydrocarbon group having 3-20 carbon atoms, an alkenyl group having 2-20 carbon atoms, a substituted or unsubstituted monovalent aromatic hydrocarbon group having 6-20 carbon atoms, or a substituted or unsubstituted monovalent heterocyclic group having 3-20 atoms, or a group  $-N(R')_2$ , wherein  $R'$  individually represents a hydrogen atom, a substituted or unsubstituted alkyl group having 1-20 carbon atoms, a substituted or unsubstituted monovalent alicyclic hydrocarbon group having 3-20 carbon atoms, an alkenyl group having 2-20 carbon atoms, a substituted or unsubstituted monovalent aromatic hydrocarbon group having 6-20 carbon atoms, or a substituted or unsubstituted monovalent heterocyclic group having 3-20 atoms, or two  $R'$  groups form, in combination and together with the nitrogen atom in the formula, a group having a cyclic structure with 3-8 atoms and wherein  $R^3$  represents a hydrogen atom, a substituted or unsubstituted alkyl group having 1-20 carbon atoms, a substituted or unsubstituted monovalent alicyclic hydrocarbon group having 3-20 carbon atoms, an alkenyl group having 2-20 carbon atoms, or a substituted or unsubstituted monovalent heterocyclic group having 3-20 atoms, or a group  $-N(R')_2$ , wherein  $R'$  individually represents a hydrogen atom, a substituted or unsubstituted alkyl group having 1-20 carbon atoms, a substituted or unsubstituted monovalent alicyclic hydrocarbon group having 3-20 carbon atoms, an alkenyl group having 2-20 carbon atoms, a substituted or unsubstituted monovalent aromatic hydrocarbon group having 6-20 carbon atoms, or a substituted or unsubstituted monovalent heterocyclic group having 3-20 atoms, or two  $R'$  groups form, in combination and together with the nitrogen atom in the formula, a group having a cyclic structure with 3-8 atoms.

2. (Original) The onium salt compound according to claim 1, wherein A in formula (1) is a sulfur atom.

3. (Currently Amended) ~~[[The]] An onium salt compound according to claim 1,~~  
~~wherein P in formula (1) is O-SO<sub>2</sub>-CF<sub>2</sub>-R<sup>4</sup> and the~~ having a cationic moiety has the in of  
the following formula (2),



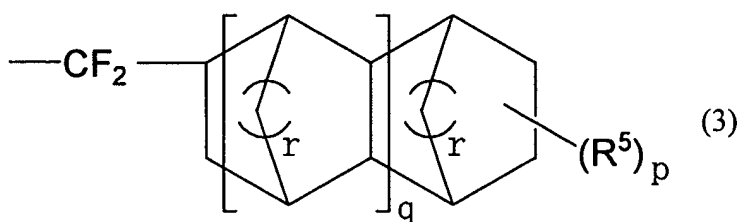
~~wherein A, Ar<sup>1</sup>, m, Ar<sup>2</sup>, n, and x are respectively the same as A, Ar<sup>1</sup>, m, Ar<sup>2</sup>, n, and x in~~  
~~the formula (1)~~ A represents an iodine atom or a sulfur atom, when A is an iodine atom,  
m is 1 or 2 and n is 0 or 1, provided that (m+n)=2, and x is an integer of 1-10, and when  
A is a sulfur atom, m is 1-3 and n is 0-2, provided that (m+n) = 3, and x is an integer of  
1-15; Ar<sup>1</sup> represents a substituted or unsubstituted aromatic hydrocarbon group having 6-  
20 carbon atoms with a valence of 1 to (x+1) or a substituted or unsubstituted  
heterocyclic group having 3-20 atoms with a valence of 1 to (x+1), Ar<sup>2</sup> represents a  
substituted or unsubstituted monovalent aromatic hydrocarbon group having 6-20 carbon  
atoms or a substituted or unsubstituted monovalent heterocyclic group having 3-20  
atoms, or Ar<sup>1</sup> and Ar<sup>2</sup> mutually bond together with A<sup>+</sup> in the formula to form a group  
possessing a cyclic structure with 3-8 atoms and R<sup>4</sup> represents a hydrogen atom, fluorine

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atom, nitro group, cyano group, or a monovalent organic group having 1-20 carbon atoms.

4. (Original) The onium salt compound according to claim 3, wherein A in formula (2) is a sulfur atom.

5. (Original) The onium salt compound according to claim 3, wherein  $R^4$  in the formula (2) is a group of the following formula (3),



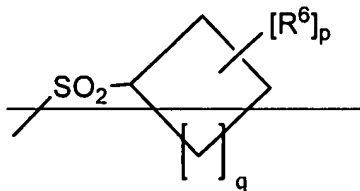
wherein  $R^5$  represents a substituted or unsubstituted alkyl group having 1-20 carbon atoms, a substituted or unsubstituted monovalent alicyclic hydrocarbon group having 3-20 carbon atoms, an alkenyl group having 2-20 carbon atoms, a substituted or unsubstituted monovalent aromatic hydrocarbon group having 6-20 carbon atoms, a substituted or unsubstituted monovalent heterocyclic group having 3-20 atoms, or a group  $-N(R^{2'})_2$ , wherein  $R^{2'}$  individually represents a hydrogen atom, a substituted or unsubstituted alkyl group having 1-20 carbon atoms, a substituted or unsubstituted monovalent alicyclic hydrocarbon group having 3-20 carbon atoms, an alkenyl group having 2-20 carbon atoms, a substituted or unsubstituted monovalent aromatic hydrocarbon group having 6-20 carbon atoms, or a substituted or unsubstituted,

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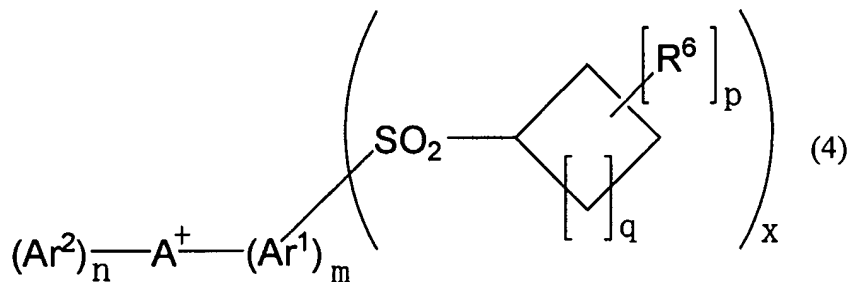
monovalent heterocyclic group having 3-20 atoms, or two R<sup>2'</sup> groups form, in combination and together with the nitrogen atom in the formula, a group having a cyclic structure with 3-8 atoms, p is an integer of 0-16, q is an integer of 0-8, and r is an integer of 1-3.

6. (Original) An onium salt compound according to claim 5, wherein both p and q are 0 and both r's are 1

7. (Currently Amended) ~~[[The]]~~ An onium salt compound ~~according to claim 1,~~ wherein the group P in the formula (1) is represented by the following formula,



~~and the~~ having a cationic moiety ~~[[is]]~~ represented by the following formula (4)

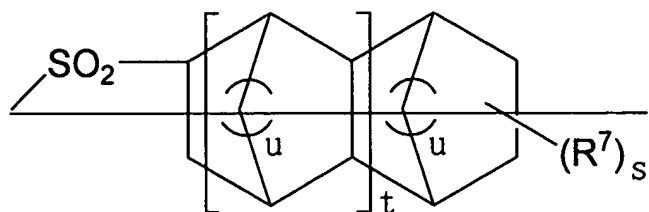


wherein A, Ar<sup>1</sup>, m, Ar<sup>2</sup>, n, and x are respectively the same as A, Ar<sup>1</sup>, m, Ar<sup>2</sup>, n, and x in the formula (1), p and q are respectively the same as p and q in the formula (3), A represents an iodine atom or a sulfur atom, when A is an iodine atom, m is 1 or 2 and n is 0 or 1, provided that (m+n)=2, and x is an integer of 1-10, and when A is a sulfur atom,

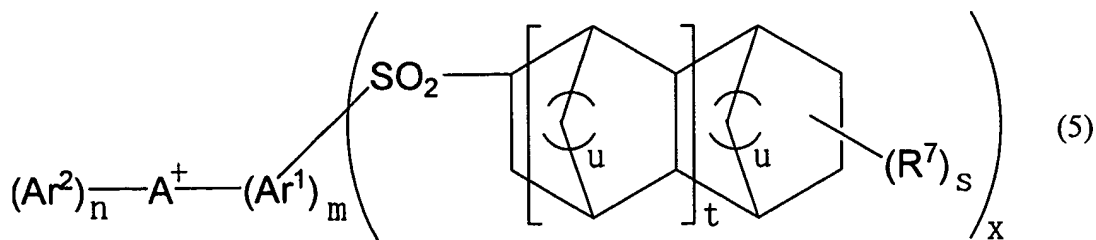
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m is 1-3 and n is 0-2, provided that  $(m+n) = 3$ , and x is an integer of 1-15;  $Ar^1$  represents a substituted or unsubstituted aromatic hydrocarbon group having 6-20 carbon atoms with a valence of 1 to  $(x+1)$  or a substituted or unsubstituted heterocyclic group having 3-20 atoms with a valence of 1 to  $(x+1)$ ,  $Ar^2$  represents a substituted or unsubstituted monovalent aromatic hydrocarbon group having 6-20 carbon atoms or a substituted or unsubstituted monovalent heterocyclic group having 3-20 atoms, or  $Ar^1$  and  $Ar^2$  mutually bond together with  $A^+$  in the formula to form a group possessing a cyclic structure with 3-8 atoms; p is an integer of 0-16; q is an integer of 0-8; and  $R^6$  represents a substituted or unsubstituted alkyl group having 1-20 carbon atoms, a substituted or unsubstituted monovalent alicyclic hydrocarbon group having 3-20 carbon atoms, an alkenyl group having 2-20 carbon atoms, a substituted or unsubstituted monovalent aromatic hydrocarbon group having 6-20 carbon atoms, or a substituted or unsubstituted monovalent heterocyclic group having 3-20 atoms, or a group  $-N(R^{3'})_2$ , wherein  $R^{3'}$  individually represents a hydrogen atom, a substituted or unsubstituted alkyl group having 1-20 carbon atoms, a substituted or unsubstituted monovalent alicyclic hydrocarbon group having 3-20 carbon atoms, an alkenyl group having 2-20 carbon atoms, a substituted or unsubstituted monovalent aromatic hydrocarbon group having 6-20 carbon atoms, or a substituted or unsubstituted, monovalent heterocyclic group having 3-20 atoms, or two  $R^{3'}$  groups form, in combination and together with the nitrogen atom in the formula, a group having a cyclic structure with 3-8 atoms.

8. (Currently Amended) ~~[[The]]~~ An onium salt compound ~~according to claim 1,~~  
~~wherein the group P in the formula (1) is represented by the following formula,~~



and the having a cationic moiety ~~[[is]]~~ represented by the following formula (5) ,

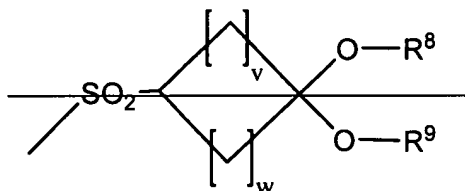


wherein ~~A, Ar<sup>1</sup>, m, Ar<sup>2</sup>, n, and x are respectively the same as A, Ar<sup>1</sup>, m, Ar<sup>2</sup>, n, and x~~  
defined in the formula (1), A represents an iodine atom or a sulfur atom, when A is an  
iodine atom, m is 1 or 2 and n is 0 or 1, provided that (m+n)=2, and x is an integer of 1-  
10, and when A is a sulfur atom, m is 1-3 and n is 0-2, provided that (m+n) = 3, and x is  
an integer of 1-15; Ar<sup>1</sup> represents a substituted or unsubstituted aromatic hydrocarbon  
group having 6-20 carbon atoms with a valence of 1 to (x+1) or a substituted or  
unsubstituted heterocyclic group having 3-20 atoms with a valence of 1 to (x+1), Ar<sup>2</sup>  
represents a substituted or unsubstituted monovalent aromatic hydrocarbon group having  
6-20 carbon atoms or a substituted or unsubstituted monovalent heterocyclic group  
having 3-20 atoms, or Ar<sup>1</sup> and Ar<sup>2</sup> mutually bond together with A<sup>+</sup> in the formula to form  
a group possessing a cyclic structure with 3-8 atoms, or Ar<sup>1</sup> and Ar<sup>2</sup> mutually bond  
together with A<sup>+</sup> in the formula to form a group possessing a cyclic structure with 3-8  
atoms; R<sup>7</sup> represents a substituted or unsubstituted alkyl group having 1-20 carbon atoms,  
a substituted or unsubstituted monovalent alicyclic hydrocarbon group having 3-20

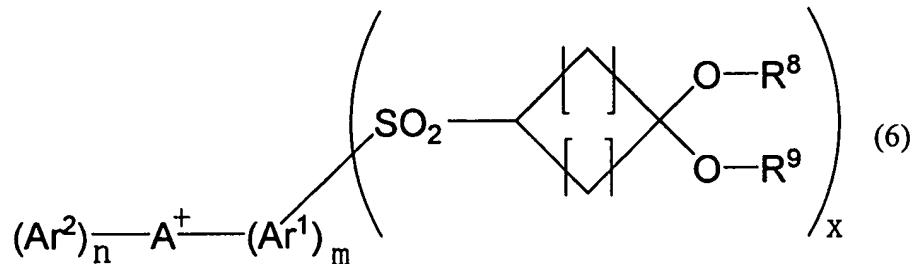
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carbon atoms, an alkenyl group having 2-20 carbon atoms, a substituted or unsubstituted monovalent aromatic hydrocarbon group having 6-20 carbon atoms, or a substituted or unsubstituted monovalent heterocyclic group having 3-20 atoms, or a group  $-N(R^{4'})_2$ , wherein  $R^{4'}$  individually represents a hydrogen atom, a substituted or unsubstituted alkyl group having 1-20 carbon atoms, a substituted or unsubstituted monovalent alicyclic hydrocarbon group having 3-20 carbon atoms, an alkenyl group having 2-20 carbon atoms, a substituted or unsubstituted monovalent aromatic hydrocarbon group having 6-20 carbon atoms, or a substituted or unsubstituted, monovalent heterocyclic group having 3-20 atoms, or two  $R^{4'}$  groups form, in combination and together with the nitrogen atom in the formula, a group having a cyclic structure with 3-8 atoms, s is an integer of 0-6, t is an integer of 0-5, and u is an integer of 1-3.

9. (Currently Amended) ~~[[The]]~~ An onium salt compound ~~according to claim 1,~~  
~~wherein the group P in the formula (1) is represented by the following formula,~~



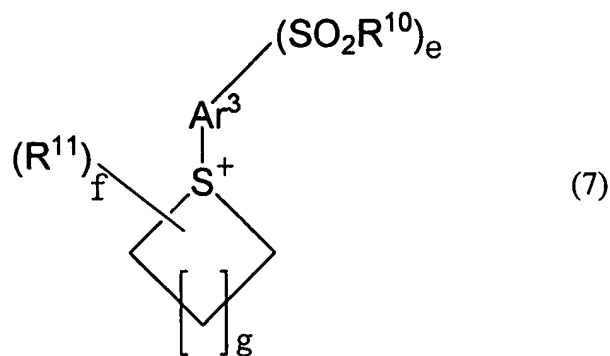
~~and the~~ having a cationic moiety ~~[[is]]~~ represented by the following formula (6) ,





wherein  $A$ ,  $Ar^1$ ,  $m$ ,  $Ar^2$ ,  $n$ , and  $x$  are respectively the same as  $A$ ,  $Ar^1$ ,  $m$ ,  $Ar^2$ ,  $n$ , and  $x$  defined in the formula (1);  $A$  represents an iodine atom or a sulfur atom, when  $A$  is an iodine atom,  $m$  is 1 or 2 and  $n$  is 0 or 1, provided that  $(m+n)=2$ , and  $x$  is an integer of 1-10, and when  $A$  is a sulfur atom,  $m$  is 1-3 and  $n$  is 0-2, provided that  $(m+n) = 3$ , and  $x$  is an integer of 1-15;  $Ar^1$  represents a substituted or unsubstituted aromatic hydrocarbon group having 6-20 carbon atoms with a valence of 1 to  $(x+1)$  or a substituted or unsubstituted heterocyclic group having 3-20 atoms with a valence of 1 to  $(x+1)$ ,  $Ar^2$  represents a substituted or unsubstituted monovalent aromatic hydrocarbon group having 6-20 carbon atoms or a substituted or unsubstituted monovalent heterocyclic group having 3-20 atoms, or  $Ar^1$  and  $Ar^2$  mutually bond together with  $A^+$  in the formula to form a group possessing a cyclic structure with 3-8 atoms, or  $Ar^1$  and  $Ar^2$  mutually bond together with  $A^+$  in the formula to form a group possessing a cyclic structure with 3-8 atoms;  $R^8$  and  $R^9$  individually represent a substituted or unsubstituted alkyl group having 1-20 carbon atoms or a substituted or unsubstituted monovalent alicyclic group having 3-20 carbon atoms, or  $R^8$  and  $R^9$  may form, in combination and together with one carbon atom and two oxygen atoms in the formula, a group having a cyclic structure with 4-10 atoms; and  $v$  and  $w$  are respectively the integers of 0-5, satisfying the formula  $(v+w) \geq 1$ .

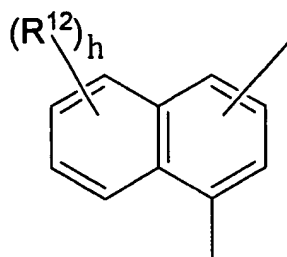
10. (Withdrawn) An onium salt compound having a cation moiety of the following formula (7),



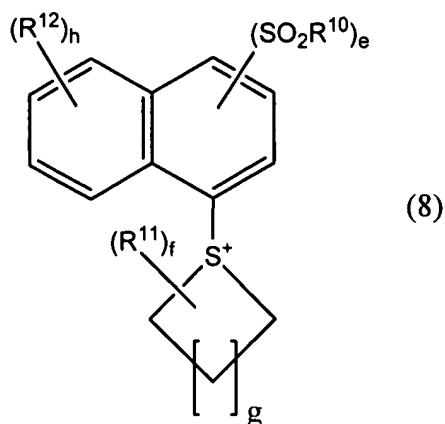
wherein  $\text{Ar}^3$  represents a substituted or unsubstituted divalent aromatic hydrocarbon group having 6-20 carbon atoms or a substituted or unsubstituted divalent heterocyclic group having 3-20 atoms,  $\text{R}^{10}$  and  $\text{R}^{11}$  individually represent a substituted or unsubstituted alkyl group having 1-20 carbon atoms, a substituted or unsubstituted monovalent alicyclic hydrocarbon group having 3-20 carbon atoms, an alkenyl group having 2-20 carbon atoms, a substituted or unsubstituted monovalent aromatic hydrocarbon group having 6-20 carbon atoms, or a substituted or unsubstituted monovalent heterocyclic group having 3-20 atoms, or a group  $-\text{N}(\text{R}^{5'})_2$  wherein  $\text{R}^{5'}$  individually represents a hydrogen atom, a substituted or unsubstituted alkyl group having 1-20 carbon atoms, a substituted or unsubstituted monovalent alicyclic hydrocarbon group having 3-20 carbon atoms, an alkenyl group having 2-20 carbon atoms, a substituted or unsubstituted monovalent aromatic hydrocarbon group having 6-20 carbon atoms, or a substituted or unsubstituted, monovalent heterocyclic group having 3-20 atoms, or two  $\text{R}^{5'}$  groups form, in combination and together with the nitrogen atom in the formula, a group having a cyclic structure with 3-8 atoms,  $e$  is an integer of 1-10,  $f$  is an integer of 0-6, and  $g$  is an integer of 0-3.

11. (Withdrawn) The onium salt compound according to claim 10, wherein the

group Ar<sup>3</sup> in the formula (7) is represented by the following formula,



and the cationic moiety is represented by the following formula (8) ,

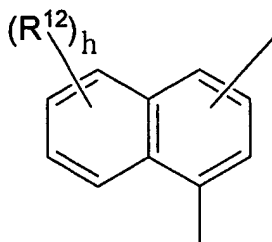


wherein  $R^{10}$ ,  $e$ ,  $R^{11}$ ,  $f$ , and  $g$  are respectively the same as  $R^{10}$ ,  $e$ ,  $R^{11}$ ,  $f$ , and  $g$  defined for the above formula (7),  $R^{12}$  represents a substituted or unsubstituted alkyl group having 1-20 carbon atoms, a substituted or unsubstituted monovalent alicyclic hydrocarbon group having 3-20 carbon atoms, an alkenyl group having 2-20 carbon atoms, a substituted or unsubstituted monovalent aromatic hydrocarbon group having 6-20 carbon atoms, or a substituted or unsubstituted monovalent heterocyclic group having 3-20 atoms, or a group  $-N(R^{6'})_2$ , wherein  $R^{6'}$  individually represents a hydrogen atom, a substituted or unsubstituted alkyl group having 1-20 carbon atoms, a substituted or unsubstituted monovalent alicyclic hydrocarbon group having 3-20 carbon atoms, an alkenyl group having 2-20 carbon atoms, a substituted or unsubstituted monovalent aromatic

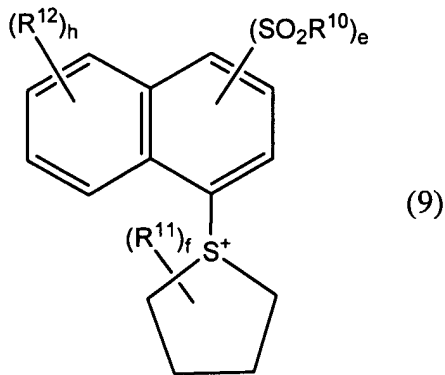
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hydrocarbon group having 6-20 carbon atoms, or a substituted or unsubstituted, monovalent heterocyclic group having 3-20 atoms, or two  $R^{6'}$  groups form, in combination and together with the nitrogen atom in the formula, a group having a cyclic structure with 3-8 atoms, and h is an integer of 0-6.

12. (Withdrawn) The onium salt compound according to claim 10, wherein the group  $Ar^3$  in the formula (7) is represented by the following formula,

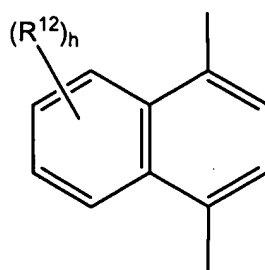


and the cationic moiety is represented by the following formula (9)

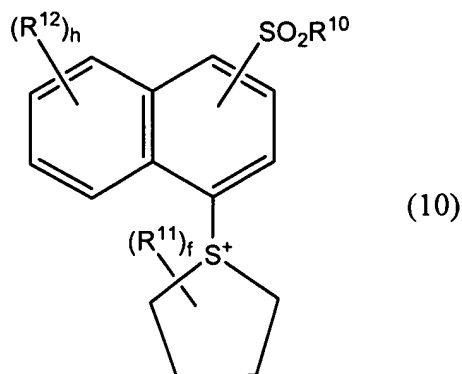


wherein  $R^{10}$ , e,  $R^{11}$ , f,  $R^{12}$  and h are the same as  $R^{10}$ , e,  $R^{11}$ , f,  $R^{12}$  and h defined for the above formula (8).

13. (Withdrawn) The onium salt compound according to claim 10, wherein the group  $Ar^3$  in the formula (7) is represented by the following formula,



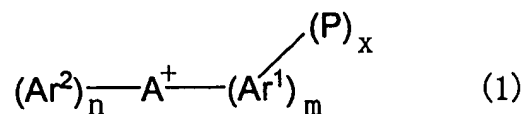
$e=1$ , and the cationic moiety is represented by the following formula (10),



wherein  $R^{10}$ ,  $R^{11}$ ,  $f$ ,  $R^{12}$  and  $h$  are the same respectively as  $R^{10}$ ,  $R^{11}$ ,  $f$ ,  $R^{12}$  and  $h$  defined for the above formula (8).

14. (Currently Amended) A positive tone radiation-sensitive resin composition comprising:

(A) at least one ~~photoacid generator selected from the onium salt compounds according to claim 1 as a photoacid generator for photoresist~~ onium salt compound having a cation moiety of the following formula (1),



wherein A represents an iodine atom or a sulfur atom, when A is an iodine atom, m is 1 or 2 and n is 0 or 1, provided that (m+n)=2, and x is an integer of 1-10, and when A is a sulfur atom, m is 1-3 and n is 0-2, provided that (m+n) = 3, and x is an integer of 1-15; Ar<sup>1</sup> represents a substituted or unsubstituted aromatic hydrocarbon group having 6-20 carbon atoms with a valence of 1 to (x+1) or a substituted or unsubstituted heterocyclic group having 3-20 atoms with a valence of 1 to (x+1), Ar<sup>2</sup> represents a substituted or unsubstituted monovalent aromatic hydrocarbon group having 6-20 carbon atoms or a substituted or unsubstituted monovalent heterocyclic group having 3-20 atoms, or Ar<sup>1</sup> and Ar<sup>2</sup> mutually bond together with A<sup>+</sup> in the formula to form a group possessing a cyclic structure with 3-8 atoms; and the x-number of P groups bonding to one or more of the m-number of Ar<sup>1</sup> groups individually represent -O-SO<sub>2</sub>R<sup>1</sup>, -O-S(O)R<sup>2</sup>, or -SO<sub>2</sub>R<sup>3</sup>, wherein R<sup>1</sup>, R<sup>2</sup>, and R<sup>3</sup> individually represent a hydrogen atom, a substituted or unsubstituted alkyl group having 1-20 carbon atoms, a substituted or unsubstituted monovalent alicyclic hydrocarbon group having 3-20 carbon atoms, an alkenyl group having 2-20 carbon atoms, a substituted or unsubstituted monovalent aromatic hydrocarbon group having 6-20 carbon atoms, or a substituted or unsubstituted monovalent heterocyclic group having 3-20 atoms, or a group -N(R')<sub>2</sub>, wherein R' individually represents a hydrogen atom, a substituted or unsubstituted alkyl group having 1-20 carbon atoms, a substituted or unsubstituted monovalent alicyclic hydrocarbon group having 3-20 carbon atoms, an alkenyl group having 2-20 carbon

atoms, a substituted or unsubstituted monovalent aromatic hydrocarbon group having 6-20 carbon atoms, or a substituted or unsubstituted monovalent heterocyclic group having 3-20 atoms, or two R' groups form, in combination and together with the nitrogen atom in the formula, a group having a cyclic structure with 3-8 atoms; and

(B) a resin having an acid-dissociable group and which is insoluble or scarcely soluble in alkali, but which becomes alkali soluble when the acid-dissociable group dissociates.

15. (Original) The positive tone radiation-sensitive resin composition according to claim 14, wherein the onium salt compound is selected from the onium salt compounds having  $\text{-SO}_2\text{R}^3$  for the group P in the formula (1).

16. (Currently Amended) ~~[[The]]~~ A positive tone radiation-sensitive resin composition according to claim 14, wherein the photoacid generator is selected from the onium salt compound according to claim 3 comprising (A) at least one onium salt compound according to Claim 3 as a photoacid generator; and (B) a resin having an acid-dissociable group and which is insoluble or scarcely soluble in alkali, but becomes alkali soluble when the acid-dissociable group dissociates.

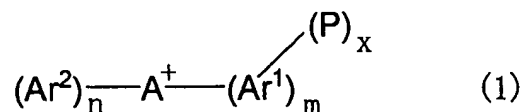
17. (Currently Amended) ~~[[The]]~~ A positive tone radiation-sensitive resin composition according to claim 14, wherein the photoacid generator is at least one onium salt compound according to claim 5 comprising: (A) at least one onium salt compound according to Claim 5 as a photoacid generator; and (B) a resin having an acid-dissociable

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group and which is insoluble or scarcely soluble in alkali, but becomes alkali soluble when the acid-dissociable group dissociates.

18. (Withdrawn) A positive tone radiation-sensitive resin composition comprising: (A) at least one photoacid generator selected from the onium salt compounds according to claim 10 as a photoacid generator for photoresist and (B) a resin having an acid-dissociable group and insoluble or scarcely soluble in alkali, but becomes alkali soluble when the acid-dissociable group dissociates.

19. (New) An onium salt compound having a cation moiety of the following formula (1),



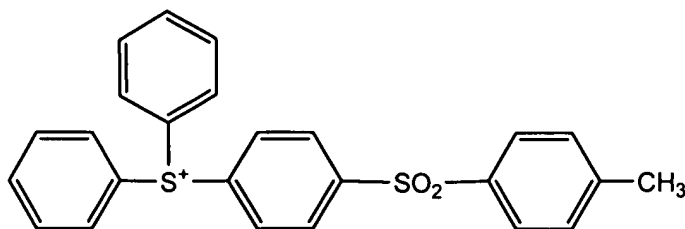
wherein A represents an iodine atom or a sulfur atom, when A is an iodine atom, m is 1 or 2 and n is 0 or 1, provided that (m+n)=2, and x is an integer of 1-10, and when A is a sulfur atom, m is 2 or 3 and n is 0 or 1, provided that (m+n) = 3, and x is an integer of 1-15; Ar<sup>1</sup> represents a substituted or unsubstituted aromatic hydrocarbon group having 6-20 carbon atoms with a valence of 1 to (x+1) or a substituted or unsubstituted heterocyclic group having 3-20 atoms with a valence of 1 to (x+1), Ar<sup>2</sup> represents a substituted or unsubstituted monovalent aromatic hydrocarbon group having 6-20 carbon atoms or a substituted or unsubstituted monovalent heterocyclic group having 3-20 atoms, or Ar<sup>1</sup> and Ar<sup>2</sup> mutually bond together with A<sup>+</sup> in the formula to form a group possessing a cyclic structure with 3-8 atoms; and the x-number of P groups bonding to the m-number



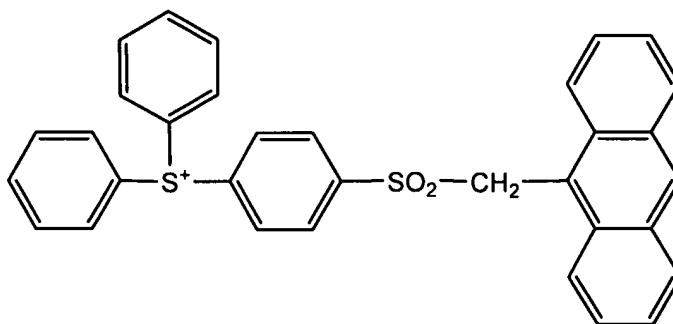
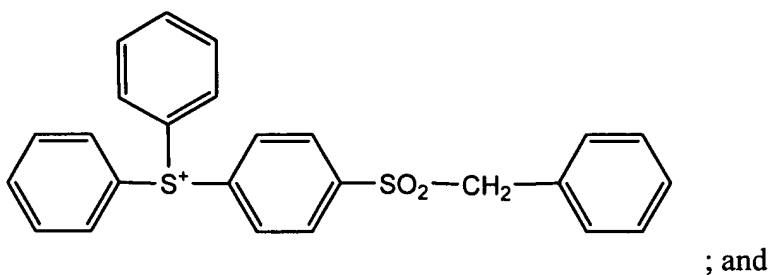
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of Ar<sup>1</sup> groups individually represent -O-SO<sub>2</sub>R<sup>1</sup>, -O-S(O)R<sup>2</sup>, or -SO<sub>2</sub>R<sup>3</sup>, wherein R<sup>1</sup>, R<sup>2</sup>, and R<sup>3</sup> individually represent a hydrogen atom, a substituted or unsubstituted alkyl group having 1-20 carbon atoms, a substituted or unsubstituted monovalent alicyclic hydrocarbon group having 3-20 carbon atoms, an alkenyl group having 2-20 carbon atoms, a substituted or unsubstituted monovalent aromatic hydrocarbon group having 6-20 carbon atoms, or a substituted or unsubstituted monovalent heterocyclic group having 3-20 atoms, or a group -N(R')<sub>2</sub>, wherein R' individually represents a hydrogen atom, a substituted or unsubstituted alkyl group having 1-20 carbon atoms, a substituted or unsubstituted monovalent alicyclic hydrocarbon group having 3-20 carbon atoms, an alkenyl group having 2-20 carbon atoms, a substituted or unsubstituted monovalent aromatic hydrocarbon group having 6-20 carbon atoms, or a substituted or unsubstituted monovalent heterocyclic group having 3-20 atoms, or two R' groups form, in combination and together with the nitrogen atom in the formula, a group having a cyclic structure with 3-8 atoms.

20. (New) An onium salt compound having a cation moiety selected from the group consisting of:



;



21. (New) A positive tone radiation-sensitive resin composition comprising: (A) at least one onium salt compound according to Claim 20 as a photoacid generator; and (B) a resin having an acid-dissociable group and which is insoluble or scarcely soluble in alkali, but becomes alkali soluble when the acid-dissociable group dissociates.